

# DERWENT PUBLICATIONS LTD.

BELI/★

X11 X28

L1267 D/43 ★SU-792-511

Linear motor set - has relatively displaced core poles with extreme ferromagnetic pad extension equal to pole pitch

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Improved uniformity of motion in the linear motor is ensured by the relative shift between the active surfaces of core poles in the longitudinal direction. The shift amounts to the pole pitch while the extreme end on each side of the U-shaped frame features a ferromagnetic pad with a length equal to the pole pitch.

The interaction of current of the armature winding (6) and of the main magnetic flux produces a corresponding advance of the movable part of motor. The directivity of the force is maintained by the semiconductor commutation unit while motion reversal is controlled by altering the flow sense of current either in the armature winding or in the excitation winding (5). The linear motor frame (1) is built-in the machine tool slide and the ferromagnetic prisms (2) move in the gap. The stator core (3) features pole pieces (4) with slots holding winding (6) facing the mobile part. Bul.48/30.12.80 (5pp Dwg.No.1)

X11-H2 X15-A3

